

LAB Group Work The Path of Light

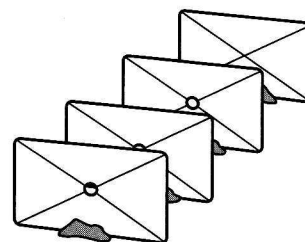
Question What path does light travel?

Procedure

1. Use a ruler to draw lines between opposite corners of all 4 index cards. This should form an "X" on each card.
2. For 3 of the cards, punch a hole where the lines cross.
3. Use a small piece of the clay to stand each of the 4 index cards up on its side.
4. Line the cards up so that you can shine a flashlight through all 3 holes, onto the fourth card. See if you can get the light to shine on the center of the "X" of the fourth card.
5. How did you get the light to shine through all 3 holes onto the fourth card?

Materials

- 4 index cards
- ruler
- paper punch
- modeling clay
- flashlight



6. Predict what will happen if you move one punched card slightly to the side.

7. Test your prediction. Observe what happens.

Analysis

1. Was the path of light curved or straight? Was the light able to go through the holes when you moved one card to the side?

2. Draw a conclusion about the path that light travels.